

DT05 d PCT/PTO 17 FEB 2005

Docket No.: 13173-00002-US  
(PATENT)**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re Patent Application of:  
Christel R. Schopfer et al.

Application No.: Not Yet Assigned

Confirmation No.: N/A

Filed: Concurrently Herewith

Art Unit: N/A

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For: TRANSGENIC EXPRESSION CASSETTES  
FOR EXPRESSING NUCLEIC ACIDS IN  
THE FLOWER OF PLANTS

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Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In accordance with 37 CFR 1.97, Applicant(s) hereby make of record the following documents. A PTO Form SB/08 and a full copy of each of the documents required under 37 CFR 1.98(a)(2) accompany this statement.

Of the documents listed on the attached SB/08 are the documents cited in an International Search Report during the prosecution of international application no. PCT/EP03/08394, which corresponds to the above referenced application, and in accordance with 37 CFR 1.97(b)(2), hereby submit(s) these documents for the Examiner's consideration. A copy of the International Search Report and of each document required under 37 CFR 1.98(a)(2) are enclosed as well.

This statement is not to be interpreted as a representation that the cited documents are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any document herein be construed *per se* as a representation that such document is prior art. Moreover, Applicants understand the Examiner will make an independent evaluation of the cited documents.

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Applicants believe no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 03-2775, under Order No. 13173-00002-US from which the undersigned is authorized to draw.

Dated: 2/17/05

Respectfully submitted,

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Roberte M. D. Makowski

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				Application Number	Not Yet Assigned
				Filing Date	Concurrently Herewith
				First Named Inventor	Christel R. Schopfer
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	13173-00002-US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)	MM-DD-YYYY		
	AA	US-6,232,530-B1	05-15-2001	DellaPenna, et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	MM-DD-YYYY			
	BA	WO-00/32788	06-08-2000	DellaPenna, et al.		

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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>	
	CA	Nakamura Y. "Arabidopsis thaliana genomic DNA, chromosome 5, P1 clone: MHM17" <i>Database EM_PL 'Online!'</i> Accession No. AB024035, 03/05/99		
	CB	Giuliano G., et al. "Arabidopsis thaliana lycopene epsilon cyclase gene, complete cds." <i>Database EM_PL 'Online!'</i> Accession No. AF117257, 07/12/2000		
	CC	Harker M. et al. "H. pluvialis mRNA for beta-carotene C-4 oxygenase" <i>Database EM_PL 'Online!'</i> Accession No. X86782, 11/30/97		
	CD	Costa M.C. et al. "Citrus x paradisi lycopene cyclase mRNA, complete cds." <i>Database EM_PL 'Online!'</i> Accession No. AF152246, 06/09/99		
	CE	Chen D. et al. "Daucus carota lycopene epsilon-cyclase (LYC-e) mRNA, partial cds." <i>Database EM_PL 'Online!'</i> Accession No. AF212130, 01/06/00		
	CF	Boiteux M.E.N.F. et al. "Daucus carota lycopene epsilon cyclase mRNA, partial cds." <i>Database EM_PL 'Online!'</i> Accession No. AF229684, 02/15/00		
	CG	Moehs C.P., et al. "Tagetes erecta epsilon cyclase mRNA, complete cds." <i>Database EM_PL 'Online!'</i> Accession No. AF251016, 09/07/00		
	CH	Cunningham F.X. Jr. et al. "Adonis palaestina lycopene epsilon-cyclase mRNA, complete cds." <i>Database EM_PL 'Online!'</i> Accession No. AF321535, 02/12/01		
	CI	Cunningham F.X. Jr. "Adonis palaestina lycopene epsilon-cyclase mRNA, complete cds." <i>Database EM_PL 'Online!'</i> Accession No. AF321536, 02/12/01		
	CJ	Cunningham F.X. Jr. "Solanum tuberosum lycopene epsilon-cyclase mRNA, partial cds." <i>Database EM_PL 'Online!'</i> Accession No. AF321537, 02/12/01		
	CK	Xu C. et al. "Citrus sinensis lycopene epsilon-cyclase (CSLECY) mRNA, partial cds." <i>Database EM_PL 'Online!'</i> Accession No. AF450280, 12/19/01		
	CL	DeSouza M.L. et al. "Spinacia oleracea lycopene epsilon-cyclase (lec) mRNA, complete cds." <i>Database EM_PL 'Online!'</i> Accession No. AF463497, 01/31/02		
	CM	Cunningham F.X. Jr. "Lactuca sativa lycopene epsilon-cyclase mRNA, complete cds." <i>Database EM_PL 'Online!'</i> Accession No. AF321538, 02/12/01		
	CN	Costa M.C. et al. "Citrus x paradisi lycopene epsilon-cyclase mRNA, complete cds." <i>Database EM_PL 'Online!'</i> Accession No. AF486650, 03/22/02		

Examiner Signature		Date Considered	
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Sheet	2	of	2		

CO	Sasaki T. et al. "Oryza sativa (japonica cultivar-group) genomic DNA, chromosome 1, BAC clone:B1097D05." <i>Database EM_PL 'Online!'</i> Accession No. AP003332, 03/01/01	
CP	Del Villar-Martinez A.A. et al. "Tagetes erecta epsilon cyclase (lcy-e) mRNA, complete cds." <i>Database EM_PL 'Online!'</i> Accession No. AY099485, 06/11/02	
CQ	Scolnik P.A. et al. "Arabidopsis thaliana lycopene cyclase (LYC) mRNA, complete cds." <i>Database EM_PL 'Online!'</i> Accession No. L40176, 04/15/95	
CR	"Arabidopsis thaliana lycopene epsilon cyclase (At5g57030) mRNA, complete cds." <i>Database EM_PL 'Online!'</i> Accession No. NM_125085	
CS	Ronen, G. et al. "Lycopene epsilon cyclase, chloroplast precursor." <i>Database EM_PL 'Online!'</i> Accession No. O65837 10/16/01	
CT	Sandmann G. "Molecular evolution of carotenoid biosynthesis from bacteria to plants" <i>Physiologia Plantarum</i> , 116, 2002, pp 431-440	
CU	Ronen G., et al. "Regulation of carotenoid biosynthesis during tomato fruit development: expression of the gene for lycopene epsilon-cyclase is down-regulated during ripening and is elevated in the mutant Delta" <i>The Plant Journal</i> 17(4),1999, pp. 341-351	
CV	Cunningham F.X. Jr. et al. "One ring or two? Determination of ring number in carotenoids by lycopene $\epsilon$ -cyclases" <i>PNAS</i> 98(5), February 2001, pp. 2905-2910	

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